

Lightning

Lightning will usually strike the highest nearby object. In rural areas, this may be a power line tower or conductor. Transmission facilities are designed to withstand lightning strikes by channeling them to ground at the tower.

When lightning strikes a tower, the damage is usually much less than if a barn or tree had been hit.

Play it safe. Stay away from power lines and other tall objects during electrical storms. Lightning is dangerous if you are standing near where it enters the ground.

Fires

Smoke and hot gases from a large fire can create a conductive path for electricity. When a fire is burning under a transmission line, electricity could arc from the conductor to the ground, endangering people and objects near the arc.

Field burning and other large fires in and around transmission lines can damage transmission lines and cause power outages. Water and other chemicals used to extinguish those fires should never be directed toward a transmission line.

Kite Flying and Model Airplanes

BPA discourages anyone from flying a kite or model airplane anywhere near a power line. However, if your kite or model airplane is about to touch a power line, drop the string or handline instantly, before it touches the line. Do not try to pull the kite or airplane down or climb up after it. Call the nearest electric utility.

Vandalism and Shooting

When hunting in remote areas, do not shoot at transmission lines.

Insulators are, for the most part, made of porcelain or glass and are easily broken. Not only can broken insulators cause flashovers, an insulator string hit by gunfire could pull apart and let the conductor fall to the ground. This could be a serious hazard to anyone close to the line. It could also cause a power outage and possible a fire in dry areas.

Unfortunately, most insulator damage from gunfire is the result of simple vandalism.

Hunters sometimes assume that the land under a transmission line belongs to the federal government and is therefore public property. This is rarely the case. Most land beneath power lines — except in national forests or on Bureau of Land Management lands — is privately owned.

Those who cause willful damage to BPA transmission facilities or property along easements can be prosecuted by the federal government, the property owner, or both.

Remember, insulators and conductors are not fair game. Do not use them for target practice. To do so is illegal and can be extremely hazardous.

Please report broken insulators and conductors, or any other damage you see, to BPA's Crime Witness program by calling **1-800-437-2744**. Crime Witness allows you to report, confidentially, an illegal activity that you witness against BPA's transmission system, property or personnel. This includes:

- Shooting at power lines, transmission towers or substation equipment.
- Dumping of any waste or material on BPA property.
- Vandalism to BPA property, buildings and vehicles.
- Theft of BPA equipment, supplies, tools or materials.

The program offers rewards of up to \$1,000 for information leading to the arrest and conviction of the persons causing the damage.

Metal Objects

As a precautionary practice, do not raise any metal object more than 14 feet in the air underneath a transmission line.

When you mount an antenna on a large vehicle that you plan to operate on a BPA easement, do not let it extend more than 14 feet above the ground.

Before you sail a boat on a lake or river, check the allowable clearance under any transmission line. We recommend that all masts or guy wires above the deck be connected electrically to an underwater metallic part such as the keel or centerboard. This precaution, which protects against lightning or accidental contact with a power line, may save your life.

Swimming pool skimmers should not be raised vertically under any power line. BPA strongly discourages the building of swimming pools within BPA easements because of the possibility of an accident.

Climbing

Climbing on power line poles, towers or guy wires can be extremely hazardous. Don't do it under any circumstance.

Pacemakers

Under some circumstances, voltages and currents from power lines, and household and other electrical devices may interfere with the operation of some implanted cardiac pacemakers. However, we know of no case where a BPA line has harmed a pacemaker patient.

As a precaution, persons who may have reason to be very near high-voltage facilities should consult with a physician to determine whether their particular implant may be susceptible to 60-Hz interference.

If a person with a pacemaker is in an electrical environment

and the pacemaker begins to produce a regularly spaced pulse that is not related to a normal heartbeat, the person should leave the environment and consult a physician.

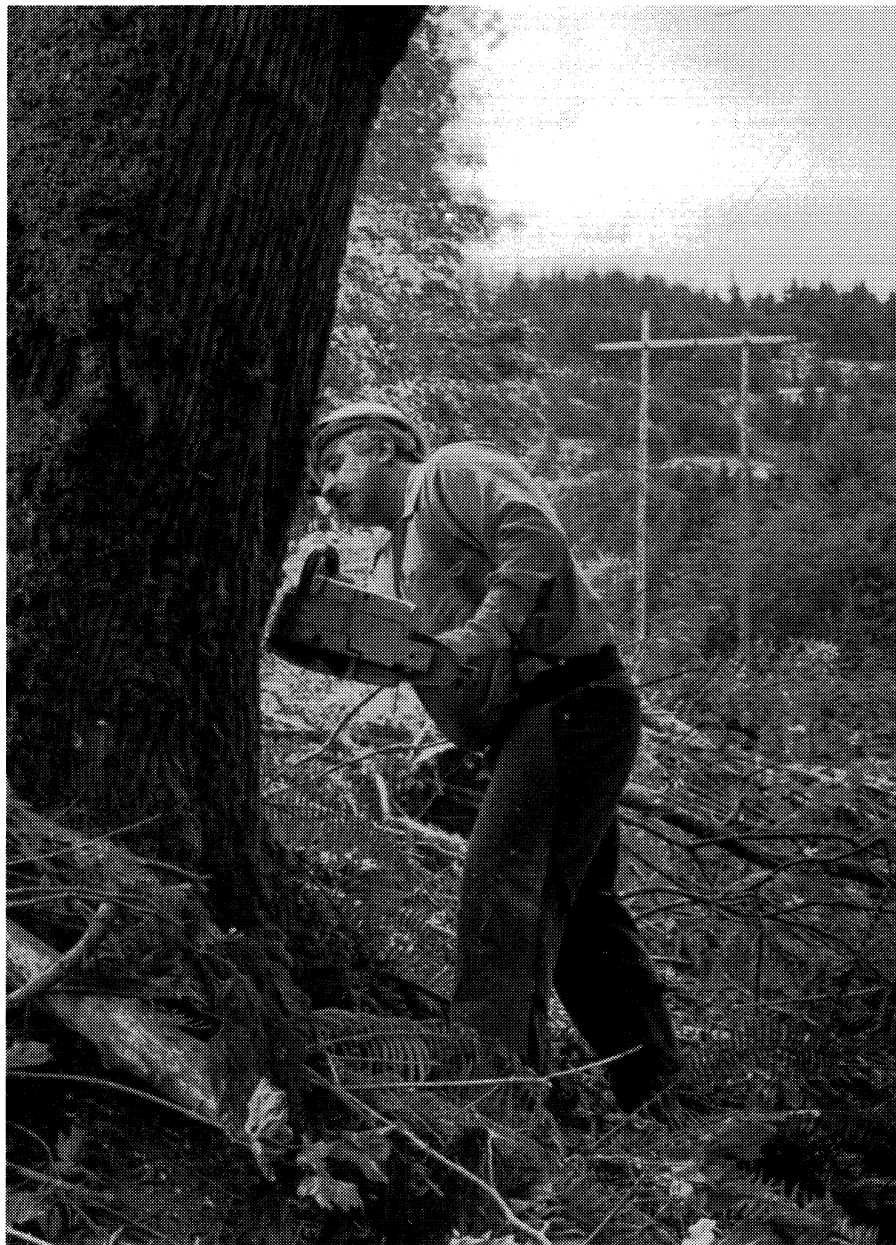
Trees and Logging

No logging or tree cutting should be done within BPA's easement without first contacting the nearest BPA transmission office. In many cases BPA owns the timber within its easements. Additionally, logging near transmission lines can be very hazardous and requires special caution. Since trees conduct electricity, if one should fall into or close to a line, the current could follow the tree trunk to the ground and endanger anyone standing near its base. Here are two simple rules: If you should come upon a tree which has fallen into a power line, stay away from it. If you should accidentally cause a tree to fall into a line, run for your life! Do not go back to retrieve your saw or equipment. Call BPA or your local utility immediately.

We suggest if you have trees either on or close to the easement which need to be cut and could fall on or close to a transmission line, that you contact BPA. It may be safer to have BPA remove the trees than to do it yourself.

Since transmission line rights-of-way are usually not owned by BPA, but are acquired through easements from landowners, trees or logs stacked within or alongside them are not public property. People removing trees and logs without permission are stealing and can be prosecuted.

In addition, there are special considerations for growing Christmas trees, orchards and other tall-growing vegetation. Ask for the *"Landowner's Guide to Trees and Transmission Lines"* and the *"Landowners Guide to Use of BPA Rights-of-Way."*



Cutting trees within power line rights-of-way can be dangerous. It may be safer to have BPA do it for you.

Explosives

If you plan to detonate explosives near a BPA transmission line, notify BPA well in advance. See the list at the front of this booklet for the address and telephone number of the BPA office nearest you. BPA will tell you if any special precautionary measures must be taken at a particular blasting site.

As a general rule, do not use electric detonating devices when blasting within 1,000 feet of a power line. Nonelectric methods of detonation will avoid the

danger of accidentally discharging an electric blasting cap.

If you are blasting within 1,000 feet of a power line and there is no reasonable alternative to the use of an electronic detonating device, you must clear the layout of the electric detonation circuit with BPA.